

TRANSFORMATION PROGRAMS IN THE FY 2002 AMENDED BUDGET (\$M)

<u>Program</u>	<u>Amended Budget</u>	<u>Comment</u>
<u>Science and Technology</u>		
Foliage Penetration Radar	18	Development of radar technologies that can detect objects concealed by foliage.
New Bomber Development	50	Next generation long range bomber designed to emphasize conventional precision strike capabilities.
UCAV	125	Unmanned Combat Air Vehicle (UCAV) will be larger than an Unmanned Aerial Vehicle (UAV) and will carry weapons.
Rotorcraft Technology Center	15	A center in Sunnyvale, California that develops advanced technologies for helicopters.
Subtotal	208	
<u>Space and Information Warfare</u>		
Computer Network Defense	152	Improved computer network security infrastructure, including monitoring and configuration management efforts.
Computer Network Defense Ops	4	Operational component of above item.
Information Warfare and Specials	746	Offensive and defensive information operations and classified programs.
GPS Navigation Warfare	17	Global Positioning System (GPS) Navigation Warfare consists of efforts to protect friendly use of GPS by U.S. forces and prevent the hostile use of GPS by adversaries during military operations.
GPS SAASM	18	Selective Availability Anti-Spoofing Module (SAASM) will enable GPS user equipment to function properly despite the hostile use of GPS by adversaries during military operations.
Microsats	29	Very small satellites for use in the assured protection of the Nation's space assets.
Space Base Radar	50	A system to provide continuous global wide-area surveillance, including time critical targeting capability.
Space Control	63	Active and passive measures to protect U.S. and friendly space systems (satellites, communications links, and supporting ground systems) from natural and enemy attempts to negate or interfere with space operations.
Space Test Range	13	The infrastructure required to support a Space Control Test, Training, and Exercise capability

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Subtotal	<u>1,092</u>	
<u>Future Threat Systems</u>		
Acoustic COTS Insertion	113	Upgrade to shipboard sonar processing that makes extensive use of commercial off-the-shelf (COTS) hardware and software.
Anti-Tamper	8	Protects weapon systems sold to foreign countries so that the software and other critical technologies cannot be tampered with.
CEC E-2C Development	265	Accelerates integration of the Navy's Cooperative Engagement Capability (CEC) on E-2C aircraft. CEC is a network of sensors and radios that allows dispersed warships to simultaneously track enemy targets even if an individual ship's sensors have not yet detected the intruding threat.
Chem Bio Research	508	This program supports special investigations into chem-bio technology, including threat agents, operational sciences, modeling, chem-bio simulants, and nuclear, biological, chemical (NBC) survivability. The medical program within this effort focuses on development of vaccines, pretreatment and therapeutic drugs, casualty diagnosis, patient decontamination, and medical management.
CIWS Block 1B	40	Close-In Weapons Support (CIWS) is a shipboard self-defense system using a Gatling gun. Block 1B includes a thermal imager, an automatic acquisition video tracker, and stabilization system.
Compass Call Project Suter	19	Project to demonstrate improved target quality data by integrating RC-135 surveillance capabilities of the Compass Call and Rivet Joint aircraft.
DCGS Army	85	The Distributed Common Ground System (DCGS) is capable of receiving, processing, exploiting, and disseminating data from reconnaissance platforms.
Deployable Joint Cmd and Control	50	Automated joint command and control system of the future that will be deployable on ships, aircraft, and ground platforms in support of unified CINCs and lower echelons.

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E-2 Radar Modernization	401	Development and procurement of new electronically scanned array (ESA) radar for Navy E-2C command and control aircraft.
EP-3 Replacement	45	Conversion of one P-3 antisubmarine warfare aircraft to an EP-3 intelligence, reconnaissance, and surveillance (ISR) aircraft.
FIOP	15	Automated system to allow Service and Agency systems to exchange data to improve the coherence and consistency across the systems that support joint and coalition operations.
Force Battle Cmd Brigade/Below	123	A digital, "go-to-war" battle command information system that provides the mounted and dismounted warfighters with integrated, "on-the-move," real-time or near-real-time situational awareness and command and control information.
Force Transformation	5	OSD management of the overall transformation effort.
GBS Size & Weight Reduction	40	High data rate satellite broadcast between many distributed information sources and warfighters who will receive the broadcast directly on small, inexpensive user terminals.
GCCS	14	Automated system that provides the foundation for migrating Service unique command and control systems into a joint, interoperable environment.
Global Hawk	307	Accelerates procurement of the Global Hawk Unmanned Aerial Vehicle (UAV) used for intelligence, surveillance, and reconnaissance.
Integrated Broadcast System	53	Worldwide, DoD standard network for transmitting national and tactical intelligence and targeting data within a common format.
Javelin	415	Procurement of additional portable, shoulder-launched anti-armor Javelin missiles.
JFCOM Experimentation	261	Accelerates Millennium Challenge major joint integrated field experimant from FY 2003 to FY 2002.
Joint Tactical Radio System	186	Family of common software-defined radios.
JSAF	36	The Joint SIGINT Avionics Family (JSAF) is a sensor system to modernize the signals intelligence (SIGINT) capabilities of airborne reconnaissance systems.
JSIMS	185	Joint Simulation System (JSIMS) supports joint wargames by developing common software architecture.

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Multi-Platform RTIP	79	The Radar Technology Insertion Program (RTIP) will provide a new generation of Electronically Scanned Array (ESA) radars to airborne reconnaissance platforms.
Radiation Hardening (Def Prod Act)	50	Capitalizes the two remaining domestic manufacturers of radiation hardened electronics to be more competitive with foreign producers..
Rolling Airframe Missile	43	Additional procurement of the Rolling Airframe Missile, a ship self-defense missile for amphibious and support ships.
Sentinel Radar	36	Sentinel provides the forward area, short-range air defense systems with a digital air picture to support maneuver forces.
Small Diameter Bomb	40	A 250 pound precision guided munition designed to increase the weapons loadout on bombers and fighter aircraft.
T&E DSB Recommendations	1	Study of how to implement the Defense Science Board's recommendations on how to improve Test and Evaluation.
Unmanned Underwater Vehicle	56	Development of unmanned underwater vehicles that will "extend the reach" of submarines to perform such missions as counter-mine, reconnaissance, etc.
Tactical Tomahawk	126	Accelerated procurement of the Tactical Tomahawk cruise missile which has additional capabilities over the legacy Tomahawk.
Subtotal	3,605	
<u>Strategic and Precision Strike</u>		
Retire Peacekeeper (keep silos)	111	Dismantle and storage of the 50 Peacekeeper intercontinental ballistic missiles.
SSGN and SSN Refueling	116	Design work for the conversion of two SSBN ballistic missile submarines to SSGN cruise missile submarines in FY 2004.
Subtotal	227	
<u>Army Transformation</u>		
Digitization	523	The application of information technologies to acquire, exchange, and employ timely digital information throughout the battlespace, tailored to the needs of the commanders, warfighters, and combat service supporters.

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FCS Army	514	The Future Combat System (FCS) is a family of weapons including a lightweight replacement for the main battle tank.
FCS DARPA	90	Same as above.
Transformation	7,413	Program to convert the Army from a heavy Cold War force to a lighter, more lethal, faster, and more mobile force geared to 21st Century missions and requirements.
Subtotal	<u>8,540</u>	
<u>Missile Defense</u>		
Missile Defense	7,044	The Ballistic Missile Defense Program has been significantly restructured. The program will now provide simultaneous research in multiple areas against threats in boost, midcourse and terminal stages of attack. Sea, land, air and space platforms will be explored to the fullest extent possible to mitigate those threats. Mature lower tier programs (PAC-3, MEADS, and Navy Area have been devolved to the Services for execution and are not included in the \$7,044 million total.
Subtotal	<u>7,044</u>	
TOTAL	<u><u>20,716</u></u>	